



MAJOR SOURCE OPERATING PERMIT

Permittee: Toray Fluorofibers America, Inc.

Facility Name: Decatur Plant

Facility No.: 712-0086

Location: Decatur, Morgan County, Alabama

In accordance with and subject to the provisions of the Alabama Air Pollution Control Act of 1971, as amended, <u>Ala. Code</u> 1975, §§22-28-1 to 22-28-23 (2006 Rplc. Vol. and 2007 Cum. Supp.) (the "AAPCA") and the Alabama Environmental Management Act, as amended, <u>Ala. Code</u> 1975, §§22-22A-1 to 22-22A-17, (2006 Rplc. Vol. and 2007 Cum. Supp.) and rules and regulations adopted thereunder, and subject further to the conditions set forth in this permit, the Permittee is hereby authorized to construct, install and use the equipment, device or other article described above.

Pursuant to the **Clean Air Act of 1990**, all conditions of this permit are federally enforceable by EPA, the Alabama Department of Environmental Management, and citizens in general. Those provisions which are not required under the **Clean Air Act of 1990** are considered to be state permit provisions and are not federally enforceable by EPA and citizens in general. Those provisions are contained in separate sections of this permit.

Issuance Date: TBD

Effective Date: TBD

Expiration Date: TBD

TABLE OF CONTENTS

GENERAL PERMIT PROVISOS3				
OPERATING PERMIT SUMMARY NO. 1	14			
(EMISSION UNITS: FLUOROCARBON FIBER MANUFACTURING PROCE	SS)			
Unit Specific Provisos	15			
Section 1-Applicability	15			
Section 2-Emission Standards	15			
Section 3-Compliance and Performance Test Methods and Procedures	15			
Section 4-Emission Monitoring	16			
Section 5-Record-keeping and Reporting Requirements	16			
OPERATING PERMIT SUMMARY NO. 2	17			
(EMISSION UNITS: BLEACHING PROCESS)				
Unit Specific Provisos	18			
Section 1-Applicability	18			
Section 2-Emission Standards	18			
Section 3-Compliance and Performance Test Methods and Procedures	18			
Section 4-Emission Monitoring	19			
Section 5-Record-keeping and Reporting Requirements	19			

Fede	erally E	Enforceable Provisos	Regulations
1.	Tran	sfer	
	or ot	permit is not transferable, whether by operation of law herwise, either from one location to another, from one of equipment to another, or from one person to her, except as provided in Rule 335-3-1613(1)(a)5.	Rule 335-3-1602(6)
2.	Rene	ewals	
	six (6	pplication for permit renewal shall be submitted at least 5) months, but not more than eighteen (18) months, re the date of expiration of this permit.	Rule 335-3-1612(2)
	to op and	source for which this permit is issued shall lose its right terate upon the expiration of this permit unless a timely complete renewal application has been submitted in the time constraints listed in the previous paragraph.	
3.	Seve	rability Clause	
	and invaling invaling invaling confing subp	provisions of this permit are declared to be severable if any section, paragraph, subparagraph, subdivision, se, or phrase of this permit shall be adjudged to be id or unconstitutional by any court of competent diction, the judgment shall not affect, impair, or idate the remainder of this permit, but shall be ned in its operation to the section, paragraph, paragraph, subdivision, clause, or phrase of this permit shall be directly involved in the controversy in which judgment shall have been rendered.	Rule 335-3-1605(e)
4.	Com	<u>pliance</u>	
	(a)	The permittee shall comply with all conditions of ADEM Admin. Code 335-3. Noncompliance with this permit will constitute a violation of the Clean Air Act of 1990 and ADEM Admin. Code 335-3 and may result in an enforcement action; including but not limited to, permit termination, revocation and reissuance, or modification; or denial of a permit renewal application by the permittee.	Rule 335-3-1605(f)
	(b)	The permittee shall not use as a defense in an enforcement action that maintaining compliance with conditions of this permit would have required halting or reducing the permitted activity.	Rule 335-3-1605(g)

Fede	erally Enforceable Provisos	Regulations	
5.	Termination for Cause		
	This permit may be modified, revoked, reopened, and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance will not stay any permit condition.	Rule 335-3-1605(h)	
5.	Property Rights		
	The issuance of this permit does not convey any property rights of any sort, or any exclusive privilege.	Rule 335-3-1605(i)	
7.	Submission of Information		
	The permittee must submit to the Department, within 30 days or for such other reasonable time as the Department may set, any information that the Department may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit or to determine compliance with this permit. Upon receiving a specific request, the permittee shall also furnish to the Department copies of records required to be kept by this permit.	Rule 335-3-1605(j)	
3.	Economic Incentives, Marketable Permits, and Emissions Trading		
	No permit revision shall be required, under any approved economic incentives, marketable permits, emissions trading and other similar programs or processes for changes that are provided for in this permit.	Rule 335-3-1605(k)	
) .	Certification of Truth, Accuracy, and Completeness:		
	Any application form, report, test data, monitoring data, or compliance certification submitted pursuant to this permit shall contain certification by a responsible official of truth, accuracy, and completeness. This certification shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate and complete.	Rule 335-3-1607(a)	
LO.	Inspection and Entry		
	Upon presentation of credentials and other documents as may be required by law, the permittee shall allow authorized representatives of the Alabama Department of Environmental Management and EPA to conduct the	Rule 335-3-1607(b)	

Fede	rally I	Enforce	eable Provisos	Regulations
	follo	wing:		
	(a)	is loc or w	r upon the permittee's premises where a source cated or emissions-related activity is conducted, here records must be kept pursuant to the litions of this permit;	
	(b)		ew and/or copy, at reasonable times, any records must be kept pursuant to the conditions of this nit;	
	(c)	(inclucion)	ect, at reasonable times, this facility's equipment uding monitoring equipment and air pollution rol equipment), practices, or operations regulated quired pursuant to this permit;	
	(d)	or pa	ple or monitor, at reasonable times, substances arameters for the purpose of assuring compliance this permit or other applicable requirements.	
11.	Com	plianc		
	(a)	appl	permittee shall continue to comply with the icable requirements with which the company has fied that it is already in compliance.	Rule 335-3-1607(c)
	(b)	appl	permittee shall comply in a timely manner with icable requirements that become effective during erm of this permit.	
12.	Com	plianc		
		in 60 d	ce certification shall be submitted annually ays of the anniversary date of issuance of this	Rule 335-3-1607(e)
	(a)		compliance certification shall include the wing:	
		(1)	The identification of each term or condition of this permit that is the basis of the certification;	
		(2)	The compliance status;	
			The method(s) used for determining the	

Fede	rally l	Enforc	eable Provisos	Regulations
		(4)	Whether compliance has been continuous or intermittent;	
		(5)	Such other facts as the Department may require to determine the compliance status of the source;	
	(b)	The	compliance certification shall be submitted to:	
	Alal	оата Г	Department of Environmental Management Air Division P.O. Box 301463 Montgomery, AL 36130-1463	
			and to:	
		Ai	r and EPCRA Enforcement Branch EPA Region IV 61 Forsyth Street, SW Atlanta, GA 30303	
13.	Reo	pening	for Cause	
		_	of the following circumstances, this permit will be rior to the expiration of the permit:	Rule 335-3-1613(5)
	(a)	Air A with years than appl requ	tional applicable requirements under the Clean act of 1990 become applicable to the permittee a remaining permit term of three (3) or more s. Such a reopening shall be completed not later eighteen (18) months after promulgation of the icable requirement. No such reopening is ired if the effective date of the requirement is than the date on which this permit is due to re.	
	(b)	requ sour by th	tional requirements (including excess emissions irements) become applicable to an affected ce under the acid rain program. Upon approval ne Administrator, excess emissions offset plans be deemed to be incorporated into this permit.	
	(c)	cont state	Department or EPA determines that this permit ains a material mistake or that inaccurate ements were made in establishing the emissions dards or other terms or conditions of this permit.	
	(d)		Administrator or the Department determines that permit must be revised or revoked to assure	

Fede	erally E	Enforce	Regulations		
		comp	pliance with the applicable requirements.		
14.	Additional Rules and Regulations		Rules and Regulations		
	exist Rule	ing on s and I	is issued on the basis of Rules and Regulations the date of issuance. In the event additional Regulations are adopted, it shall be the permit ponsibility to comply with such rules.	§22-28-16(d), Code of Alabama 1975, as amended	
15.	<u>Equi</u>	pment	: Maintenance or Breakdown		
	(a)	equipment issued main equipment twen shute the sinten	e case of shutdown of air pollution control oment (which operates pursuant to any permit ed by the Director) for necessary scheduled atenance, the intent to shut down such oment shall be reported to the Director at least ty-four (24) hours prior to the planned down, unless such shutdown is accompanied by hutdown of the source which such equipment is aded to control. Such prior notice shall include, is not limited to the following:	Rule 335-3-107(1), (2	
		(1)	Identification of the specific facility to be taken out of service as well as its location and permit number;		
		(2)	The expected length of time that the air pollution control equipment will be out of service;		
		(3)	The nature and quantity of emissions of air contaminants likely to occur during the shutdown period;		
		(4)	Measures such as the use of off-shift labor and equipment that will be taken to minimize the length of the shutdown period;		
		(5)	The reasons that it would be impossible or impractical to shut down the source operation during the maintenance period.		
	(b)	or up is exp conta stand shall work	e event that there is a breakdown of equipment oset of process in such a manner as to cause, or pected to cause, increased emissions of air aminants which are above an applicable dard, the person responsible for such equipment notify the Director within 24 hours or the next ing day and provide a statement giving all nent facts, including the estimated duration of		

Fede	rally E	Enforce	eable Provisos	Regulations	
			reakdown. The Director shall be notified when breakdown has been corrected.		
16.	<u>Ope</u> 1	ration (of Capture and Control Devices		
	whice operations operated the analysis as to	h this pated at sions o	tion control devices and capture systems for permit is issued shall be maintained and all times in a manner so as to minimize the of air contaminants. Procedures for ensuring that quipment is properly operated and maintained so hize the emission of air contaminants shall be	§22-28-16(d), Code of Alabama 1975, as amended	
17 .	Obno	oxious	Odors		
	obnoverification odore the A	This permit is issued with the condition that, should obnoxious odors arising from the plant operations be verified by Air Division inspectors, measures to abate the odorous emissions shall be taken upon a determination by the Alabama Department of Environmental Management that these measures are technically and economically feasible.		Rule 335-3-108	
18.	<u>Fugi</u>				
	(a)	emar	nating from plant roads, grounds, stockpiles, ens, dryers, hoppers, ductwork, etc.	Rule 335-3-402	
	(b)	in the airbo follov	t or haul roads and grounds will be maintained e following manner so that dust will not become orne. A minimum of one, or a combination, of the wing methods shall be utilized to minimize orne dust from plant or haul roads and grounds:		
		(1)	By the application of water any time the surface of the road is sufficiently dry to allow the creation of dust emissions by the act of wind or vehicular traffic;		
		(2)	By reducing the speed of vehicular traffic to a point below that at which dust emissions are created;		
		(3)	By paving;		
		(4)	By the application of binders to the road surface at any time the road surface is found to allow the creation of dust emissions;		

Fede	erally l	Enforc	eable Provisos	Regulations
	adec and exclu cont Alter	uld one quately ground usively rol tech rnative r to util		
19.	Add	itions	and Revisions	
	-		cations to this source shall comply with the n procedures in Rules 335-3-1613 or 335-3-16-	Rule 335-3-1613 and .14
20.	Rec	ordkee	ping Requirements	
	(a)		ords of required monitoring information of the ce shall include the following:	Rule 335-3-1605(c)2.
		(1)	The date, place, and time of all sampling or measurements;	
		(2)	The date analyses were performed;	
		(3)	The company or entity that performed the analyses;	
		(4)	The analytical techniques or methods used;	
		(5)	The results of all analyses; and	
		(6)	The operating conditions that existed at the time of sampling or measurement.	
	(b)	and at lea samp Supp main	ntion of records of all required monitoring data support information of the source for a period of ast 5 years from the date of the monitoring ple, measurement, report, or application. For information includes all calibration and attenuance records and all original strip-chart redings for continuous monitoring instrumentation copies of all reports required by the permit	
21.	Rep	orting	Requirements	
	(a)	shall insta mus	orts to the Department of any required monitoring be submitted at least every 6 months. All ances of deviations from permit requirements to be clearly identified in said reports. All required rts must be certified by a responsible official	Rule 335-3-1605(c)3.

5-3-105(3) e 335-3-1-
5-3-104

Fede	rally Enforceable Provisos	Regulations
	A pretest meeting may be held at the request of the source owner or the Air Division. The necessity for such a meeting and the required attendees will be determined on a case-by- case basis.	Rule 335-3-104
	All test reports must be submitted to the Air Division within 30 days of the actual completion of the test unless an extension of time is specifically approved by the Air Division.	
23.	Payment of Emission Fees	
	Annual emission fees shall be remitted each year according to the fee schedule in ADEM Admin. Code R. 335-1-704.	Rule 335-1-704
24.	Other Reporting and Testing Requirements	
	Submission of other reports regarding monitoring records, fuel analyses, operating rates, and equipment malfunctions may be required as authorized in the Department's air pollution control rules and regulations. The Department may require emission testing at any time.	Rule 335-3-104(1)
25.	Title VI Requirements (Refrigerants)	
	Any facility having appliances or refrigeration equipment, including air conditioning equipment, which use Class I or Class II ozone-depleting substances as listed in 40 CFR Part 82, Subpart A, Appendices A and B, shall service, repair, and maintain such equipment according to the work practices, personnel certification requirements, and certified recycling and recovery equipment specified in 40 CFR Part 82, Subpart F.	335-3-1605(a)
	No person shall knowingly vent or otherwise release any Class I or Class II substance into the environment during the repair, servicing, maintenance, or disposal of any device except as provided in 40 CFR Part 82, Subpart F.	
	The responsible official shall comply with all reporting and recordkeeping requirements of 40 CFR 82.166. Reports shall be submitted to the US EPA and the Department as required.	
26.	Chemical Accidental Prevention Provisions	
	If a chemical listed in Table 1 of 40 CFR Part 68.130 is present in a process in quantities greater than the threshold quantity listed in Table 1, then:	40 CFR Part 68
	(a) The owner or operator shall comply with the	

Fede	rally	Enforc	eable Provisos	Regulations
		prov	isions in 40 CFR Part 68.	
	(b)		owner or operator shall submit one of the wing:	
		(1)	A compliance schedule for meeting the requirements of 40 CFR Part 68 by the date provided in 40 CFR Part 68 § 68.10(a) or,	
		(2)	A certification statement that the source is in compliance with all requirements of 40 CFR Part 68, including the registration and submission of the Risk Management Plan.	
27.	<u>Disp</u>	olay of	<u>Permit</u>	
	at th	ne site v ted and	t shall be kept under file or on display at all times where the facility for which the permit is issued is d will be made readily available for inspection by persons who may request to see it.	Rule 335-3-1401(1)(d)
28.	Circ	umver	ntion_	
	any redu cond	device action is ceals or	shall cause or permit the installation or use of or any means which, without resulting in n the total amount of air contaminant emitted, dilutes any emission of air contaminant which rwise violate the Division 3 rules and regulations.	Rule 335-3-110
29.	Visi	ble Em	<u>uissions</u>	
	this discitnaries sour emis	permit harge r 1 20% i ce disc ssions g CFR Par	erwise specified in the Unit Specific provisos of any source of particulate emissions shall not more than one 6-minute average opacity greater in any 60-minute period. At no time shall any charge a 6-minute average opacity of particulate greater than 40%. Opacity will be determined by it 60, Appendix A, Method 9, unless otherwise in the Unit Specific provisos of this permit.	Rule 335-3-401(1)
30.	Fue	l-Burni	ing Equipment	
	(a)	prov may	ess otherwise specified in the Unit Specific isos of this permit, no fuel-burning equipment discharge particulate emissions in excess of the sions specified in Part 335-3-403.	Rule 335-3-403
	(b)	prov	ess otherwise specified in the Unit Specific isos of this permit, no fuel-burning equipment discharge sulfur dioxide emissions in excess of	

Fede	rally Enforceable Provisos	Regulations
	the emissions specified in Part 335-3-501.	Rule 335-3-501
31.	<u>Process Industries – General</u>	
	Unless otherwise specified in the Unit Specific provisos of this permit, no process may discharge particulate emissions in excess of the emissions specified in Part 335-3-404.	Rule 335-3-404
32.	Averaging Time for Emission Limits	
	Unless otherwise specified in the permit, the averaging time for the emission limits listed in this permit shall be the nominal time required by the specific test method.	Rule 335-3-105

Operating Permit Summary No. 1

Emission Unit(s): Fluorocarbon Fiber Manufacturing Process

Designation No(s).

in Application:

Permitting Operating

Schedule: 24 hr/day x 365 days/yr. = 8760 hr/yr

Type and quantity of fuel used:

Primary: None

Secondary: None

Pollutants Emitted:

Emission Point Number	Pollutant	Regulatory Emission Limit	Applicable Standard
01	Particulate Matter	$E = 3.59P^{0.62}$	ADEM Admin. Code R. 335-3-4- .04(1)
01	Opacity	20% as determined by a 6 minute average.	ADEM Admin. Code R. 335-3-4- .01
01	VOC	N/A	N/A

Unit Specific Provisos

Federally Enforceable Provisos	Regulations
Section 1—Applicability	
1. This unit is subject to the applicable requirements of ADEM Admin. Code R. 335-3-1603, "Major Source Operating Permits."	
2. This unit is subject to the particulate emission rate limits for Process Industries-General, Class I Counties.	ADEM Admin. Code R. 335-3-404(1)
3. This unit is subject to the opacity emission rate limits.	ADEM Admin. Code R. 335-3-401
Section 2—Emission Standards	
1. Particulate matter emissions shall not exceed the emission limit based on the process weight per hour allocated by use of the particulate emissions equation.	ADEM Admin. Code R. 335-3-404(1)
2. This unit shall not discharge into the atmosphere opacity greater than twenty percent (20%), as determined by a six (6) minute average. During one six (6) minute period during any sixty (60) minute period, this unit may discharge opacity not exceeding forty (40%) percent.	ADEM Admin. Code R. 335-3-401
Section 3—Compliance and Performance Test Methods and Procedures	
1. Method 5 as defined in 40 CFR 60, Appendix A shall be used in the determination of particulate emissions from the stack. Alternative test methods may be used provided prior approval by the Department is granted.	ADEM Admin. Code R. 335-3-105
2. Method 9 as defined in 40 CFR 60, Appendix A shall be used in the determination of the opacity of the stack emissions. Alternative test methods may be used provided prior approval by the Department is granted.	ADEM Admin. Code R. 335-3-105

Federally Enforceable Provisos	Regulations
3. Method 18 or 25A as defined in 40 CFR 60, Apendix A shall be used in the determination of VOC emissions from the stack. Alternative test methods may be used provided prior approval by the Department is granted.	ADEM Admin. Code R. 335-3-105
Section 4—Emission Monitoring	
1. The Wet Suppression System (Duct Spray and Scrubber combined) with this process shall maintain a removal efficiency of 80% for VOCs. The differential pressure and water flow rate to the scrubber shall be monitored to indicate compliance. The range for the differential pressure shall be between 0.1 to 15 inches of water and for the scrubber water flow rate shall be between 10 to 25 gallons per minute. The differential pressure and the water flow rate shall be monitored at least once every 12 hours with the daily readings and 12 hour monitoring records used to indicate compliance.	ADEM Admin. Code R. 335-3-104
2. This process shall vent to the scrubber and operate only when the scrubber is operating. Otherwise, this process shall cease operations.	ADEM Admin. Code R. 335-3-104
Section 5—Recordkeeping and Reporting Requirements	
1. This process shall have records kept of the differential pressure and water flow rate to the scrubber. These records shall be maintained in a form suitable for inspection for a period of at least five (5) years.	
2. This process shall have records kept of the occurrence and duration of any startup, shutdown or malfunction in the operation of the process equipment and any malfunction of the air pollution control equipment. These records shall be maintained in a form suitable for inspection for a period of at least five (5) years.	ADEM Admin. Code R. 335-3-104

Operating Permit Summary No. 2

Emission Unit(s): Bleaching Process

Designation No(s).

in Application:

Permitting Operating

Schedule: 24 hr/day x 365 days/yr. = 8760 hr/yr

Type and quantity of fuel used:

Primary: None

Secondary: None

Pollutants Emitted:

Emission Point Number	Pollutant	Regulatory Emission Limit	Applicable Standard
02	Particulate Matter	$E = 3.59P^{0.62}$	ADEM Admin. Code R. 335-3-4- .04(1)
02	Opacity	20% as determined by a 6 minute average.	ADEM Admin. Code R. 335-3-4- .01
02	VOC	N/A	N/A

Unit Specific Provisos

Federally Enforceable Provisos	Regulations
Section 1—Applicability	
1. This unit is subject to the applicable requirements of ADEM Admin. Code R. 335-3-1603, "Major Source Operating Permits."	ADEM Admin. Code R. 335-3-1603
2. This unit is subject to the particulate emission rate limits for Process Industries-General, Class I Counties.	ADEM Admin. Code R. 335-3-404(1)
3. This unit is subject to the opacity emission rate limits.	ADEM Admin. Code R. 335-3-401
Section 2—Emission Standards	
1. Particulate matter emissions shall not exceed the emission limit based on the process weight per hour allocated by use of the particulate emissions equation.	ADEM Admin. Code R. 335-3-404(1)
2. This unit shall not discharge into the atmosphere opacity greater than twenty percent (20%), as determined by a six (6) minute average. During one six (6) minute period during any sixty (60) minute period, this unit may discharge opacity not exceeding forty (40%) percent.	ADEM Admin. Code R. 335-3-401
Section 3—Compliance and Performance Test Methods and Procedures	
1. Method 5 as defined in 40 CFR 60, Appendix A shall be used in the determination of particulate emissions from the stack. Alternative test methods may be used provided prior approval by the Department is granted.	ADEM Admin. Code R. 335-3-105
2. Method 9 as defined in 40 CFR 60, Appendix A shall be used in the determination of the opacity of the stack emissions. Alternative test methods may be used provided prior approval by the Department is granted.	ADEM Admin. Code R. 335-3-105

Federally Enforceable Provisos	Regulations
3. Method 18 or 25A as defined in 40 CFR 60, Apendix A shall be used in the determination of VOC emissions from the stack. Alternative test methods may be used provided prior approval by the Department is granted.	ADEM Admin. Code R. 335-3-105
Section 4—Emission Monitoring	
1. This process shall vent to the catalyst treatment system.	ADEM Admin. Code R. 335-3-104
2. The ovens associated with this process shall be monitored daily for visible emissions, weather permiting. When observed visible emissions are determined to be greater than normal, corrective action to minimize emissions shall be taken within 24 hours, followed by an additional observation to confirm that emissions are reduced to normal.	ADEM Admin. Code R. 335-3-104
Section 5—Recordkeeping and Reporting Requirements	
1. This unit shall keep records of the daily visible observations required in proviso 4.2. These records should also include the nature and date of any maintenance actions taken to correct excess opacity episodes. These records shall be kept in a form suitable for inspection and shall be retained for at least five (5) years.	ADEM Admin. Code R. 335-3-104